

# BAILUN(ALEX) WU

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## Education

**University of California, Los Angeles (UCLA)**

**Los Angeles, CA**

---B.S., *Electrical Engineering*

(Sept 2022 - Jun 2024)

- GPA: 3.7
- Honor: Dean's List (Good Standing)

## Technical Skills

**Programming Language:** Matlab; Python; C/C++; HTML; Github.

**Prototyping:** Experienced with Arduino; Oscilloscope; Function Generator; Multimeter; Microcontroller.

**Software:** Advanced in Microsoft Excel, Office & PowerPoint.

**Multilingual:** Fluent in English, Mandarin & Cantonese.

## Work Experience

**C2 Education**

**San Francisco, CA**

---Mathematics Tutor

(Jun 2022 - Sept 2022)

- Tutoring over high school level math topics.
- focusing on test preparation for the math section.
- guiding and assisting students with math homework.

**San Francisco State University Bookstore**

**San Francisco, CA**

---Retail Sales Associate

(Jul 2022 - Sept 2022)

- Operate a cash register, accepting cash, credit or financial aid payments.
- Carry, shelve and straightens merchandise, stocks shelves, prices merchandise and may assist in setting up displays and signs.
- Pick, process and pack orders for shipping.
- Provide customer service/sales functions for special events.(including but not limited to graduation and athletic events)
- Support a store environment where all associates and customers are welcome.

## Engineering Projects

**Micromouse**

**Los Angeles, CA**

---UCLA IEEE Project

(Oct 2022 - Present)

- Build a maze solving robot from scratch.
- Design your own PCB.
- Program complex microcontrollers.
- Compete against other teams.

**Path Following Robot Car**

**Los Angeles, CA**

---ECE3 Project

(Oct 2022 - Dec 2022)

- Utilized the TI Robotics System Learning Kit to implement PID controls on a robotic car achieving 8.3 seconds on a 3.4 meter track.
- Developed code utilizing real-time phototransistor data to send updated movements to the car as a closed-loop feedback system.

**Electrocardiogram**

**Los Angeles, CA**

--- ENGR 96E

(Jan 2023 - Mar 2023)

- Use concepts and techniques in electrical circuit design and analysis, cardiac electrophysiology, biophysics, microcontrollers, and computer programming.
- Work in teams to design, construct, and test circuit boards capable of measuring human electrocardiograms by capturing data with microcontroller, with computer analysis and display.

## Volunteer Experience

**Community Improvement Service (CIS)**

**San Francisco, CA**

---Member

(May 2018 - Nov 2018)

---Officer

(Dec 2018 - Sept 2020)

- Present and report at the member's meeting every week.
- Organize events or activities and communicate with coordinators.